

## Computer Specifications

<b>CPU:</b>	8088-2 microprocessor, 4.77MHz or 8MHz switch selectable clock speeds, 20-bit address bus and 8-bit data bus	
<b>Math Co-processor:</b>	8087 support (option), clock speed synchronous with CPU: 4.77MHz or 8MHz	
<b>RAM:</b>	512KB standard, expandable to 640KB on motherboard	
<b>ROM:</b>	16KB, one socket	
<b>Floppy Disk Controller:</b>	Supports two internal 5.25" double density 360KB drives	
<b>I/O Expansion Slots:</b>	Three full length IBM PC/XT* compatible slots, one occupied by color/graphics (CGA) adapter	
<b>Speaker:</b>	Internal, programmable, 300 milliwatts	
<b>Keyboard:</b>	Detachable, 2 position, 84 sculpted keys, 58 key QWERTY configuration, 10 function keys, IBM AT-style with 3 LED's	
<b>Power Supply:</b>	80 watts, worldwide 115/230VAC, fan cooled, switching type, +5VDC, +12VDC, -5VDC, -12VDC	
<b>Mass Storage:</b>	Two internal half height devices maximum	
<b>Standard:</b>	Two 5-1/4" half height floppy disk drives, 360KB storage capacity	
<b>Standard Interface:</b>	Centronics* compatible parallel printer port, DB25 female connector	
<b>Physical Characteristics:</b>	<b>CPU</b>	<b>Keyboard</b>
<b>Width</b>	14.4 in.	18.2 in.
<b>Depth</b>		7.3 in.
<b>Height</b>	15 in.	1.6 in.
<b>Weight</b>	25 lbs.	2.6 lbs.
<b>Power Requirements:</b>	115VAC, 60Hz. or 230VAC 50Hz	

## Switch Settings

The CPU SPEED switch selects between 4.77 MHz and 8 MHz. When the computer is running at 4.77 MHz, the power light is orange, and at 8 MHz, the light is green.

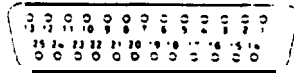
## System Configuration Switches

Switch	Options	1	2	3	4	5	6	7	8	9	10
Keyboard type	Standard*	ON									
Coprocessor 8087	Not installed*		ON								
	Installed		OFF								
Memory size	256KB			ON	ON						
	512KB*			OFF	ON						
	640KB			OFF	OFF						
Monitor and adapter type	Color(40x25)					OFF	ON				
	Color(80x25)*					ON	OFF				
	Monochrome					OFF	OFF				
	Reserved					ON	ON				
Number of floppy disk drives	1							ON	ON		
	2*							OFF	ON		
	3							ON	OFF		
	4							OFF	OFF		
Parallel port	Disabled									ON	ON
	Inhibit									ON	OFF
	Secondary									OFF	OFF
	Primary*									OFF	ON

\*Factory setting

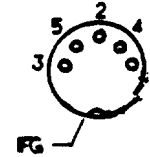
## Connector Pin Assignments

### Parallel Port Connector



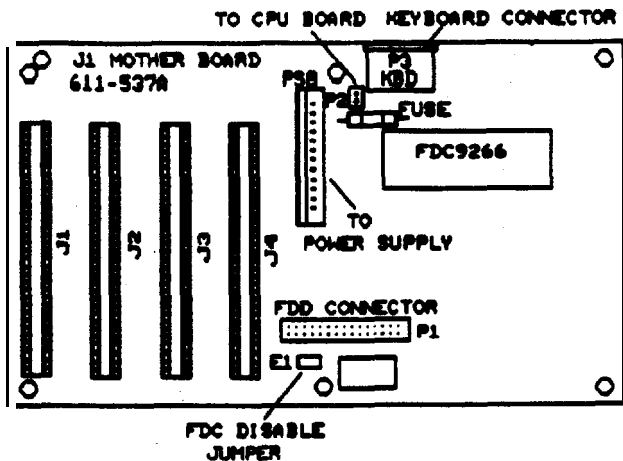
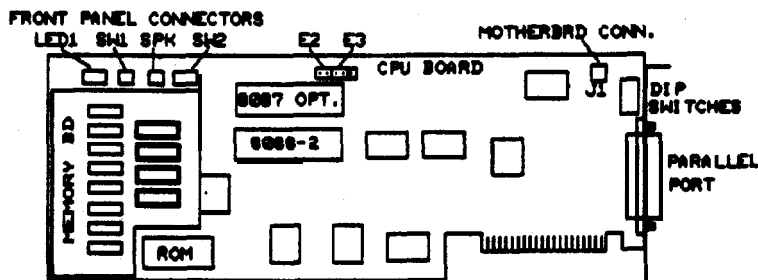
PIN NO.	SIGNAL NAME	DIRECTION	DESCRIPTION
1	-STROBE	O	-Strobe
2	DATA 0	O	Data Bit 0
3	DATA 1	O	Data Bit 1
4	DATA 2	O	Data Bit 2
5	DATA 3	O	Data Bit 3
6	DATA 4	O	Data Bit 4
7	DATA 5	O	Data Bit 5
8	DATA 6	O	Data Bit 6
9	DATA 7	O	Data Bit 7
10	-ACK	I	-Acknowledge
11	BUSY	I	Busy
12	PE	I	Paper Empty
13	SLCT	I	Printer Selected
14	-AUTO FD	O	-Auto Paper Feed
15	-ERROR	I	-Error
16	-INIT	O	-Initialize
17	-SELECTIN	O	-Select In
18 - 25	GND	-	Ground

### Keyboard Connector



PIN No.	SIGNAL NAME	DIRECTION	DESCRIPTION
1	KBD CLK	I/O	Keyboard Clock
2	MD DATA	I/O	Keyboard Data
3	KBD RESET	O	-Keyboard Reset
4	GND		Ground
5	+5V		Power

### Jumper Locations



### Jumper Settings for FDC and RAM Configuration

JUMPER STATUS	FUNCTIONAL DESCRIPTION
	<b>E1 JUMPER is ON.</b> Internal FDC controller enabled.
	<b>E1 JUMPER is OFF.</b> Internal FDC controller disabled.
	<b>Right E2 JUMPER is ON.</b> BIOS ROM size = 128K bits.
	<b>Right E2 and E3 JUMPERS are ON.</b> BIOS ROM size = 256K bits.
	<b>Left E2 and E3 JUMPERS are ON.</b> BIOS ROM size = 512K bits.

## I/O Port Addresses.

HEX ADDRESS	ASSIGNED DEVICE
000-01F	DMA Controller, 8237A-5
020-03F	Interrupt Controller, 8259A
040-05F	Timer, 8253-5
060-07F	PPI 8255A compatible
080-09F	DMA Page Register
0AX	NMI Mask Register (Note 1)
200-20F	Game Control
201	Game I/O
20C-20D	Reserved
210-217	Expansion Unit
21F	Reserved
278-27F	Parallel Printer Port 2
280-2DF	Alternate Enhanced Graphics Adapter
2E1	GP1B (Adapter 0)
2E2-2E3	Data Acquisition (Adapter 0)
2F8-2FF	Serial Port 2
300-31F	Prototype Card
320-32F	Hard Disk
348-357	DCA 3278
360-367	PC Network (low address)
368-36F	PC Network (high address)
378-37F	Parallel Printer Port 1
380-38F	SDLC(*), Bisynchronous (BSC) 2
380-383	Cluster
3A0-3AF	Bisynchronous (BSC) 1
3B0-3BF	Monochrome Display and Printer Adapter
3C0-3CF	Enhanced Graphics Adapter
3D0-3DF	Color/Graphics Monitor Adapter
3F0-3F7	Floppy Disk Controller
3F8-3FF	Serial Port 1

(\*) SDLC is IBM's Synchronous Data Link Control.

## DMA Channels

Channel	Function
0	Refresh
1	Spare
2	FDD Adapter
3	HDD Adapter

## Hardware Interrupts

Number	Function
IRQ0	Timer
IRQ1	Keyboard
IRQ2	EGA PC Net 3278/79
IRQ3	Serial 2
IRQ4	Serial 1
IRQ5	Hard Disk
IRQ6	Floppy Disk
IRQ7	Printer